

DECLARATION FOR PATENT APPLICATION

Docket No.

B7122-21

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"MAGNETORESISTANCE EFFECT ELEMENTS, MAGNETIC HEADS AND
Title: MAGNETIC STORAGE APPARATUS"

the specification of which is attached hereto, or was filed on _____
as application Serial No. _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37 Code of Federal Regulations Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

02-148643	Japan	8 June, 1990	Priority Claimed
(Number)	(Country)	(Day/Month/Year Filed)	Yes [x] No []
02-218894	Japan	22 August, 1990	x
02-218904	Japan	22 August, 1990	Yes [x] No []
(Number)	(Country)	(Day/Month/Year Filed)	
02-242341	Japan	14 September, 1990	x
01-292324	Japan	13 November, 1989	Yes [] No [x]
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and substitution of associate attorneys and agents, and to receive all patents which may issue thereon: Thomas E. Beall, Jr., Registration No. 22,410; Daniel G. Blackhurst, Registration No. 24,039; No. Christopher B. Fagan, Registration No. 22,987; Robert J. Fay, Registration No. 16,921; John X. Garred, Registration No. 31,830; Jeffrey M. Ketchum, Registration No. 31,174; Thomas E. Kocovsky, Jr., Registration No. 28,383; John R. Mattingly, Registration No. 30,293; Richard J. Minnich, Registration No. 24,175; Jay F. Moldovanyi, Registration No. 29,678; James W. McKee, Registration No. 26,482; Timothy E. Nauman, Registration No. 32,283; Patrick R. Roche, Registration No. 29,580; Albert P. Sharpe, III, Registration No. 19,879; John C. Tiernan, Registration No. 21,078.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Ryoichi NAKATANI

Inventor's signature: Ryoichi Nakatani Date: May 29, 1991

Residence: Akigawa-shi, Japan

Citizenship: Japan

Post Office Address: 22-5, Aburadai, Akigawa-shi, Japan

Full name of second inventor: Masahiro KITADAInventor's signature: Masahiro Kitada Date: May 29, 1991Residence: Nishitama-gun, Tokyo, JapanCitizenship: JapanPost Office Address: 8-81, Sakaecho-1-chome, Hamuramachi, Nishitama-gun, Tokyo, JapanFull name of third inventor: Naoki KOYAMAInventor's signature: Naoki Koyama Date: May 29, 1991Residence: Kokubunji-shi, JapanCitizenship: JapanPost Office Address: 3-13-A311, Higashimotomachi-2-chome, Kokubunji-shi, JapanFull name of fourth inventor: Isamu YUITOInventor's signature: Isamu Yuito Date: May 29, 1991Residence: Ome-shi, JapanCitizenship: JapanPost Office Address: 530-1, Chigasemachi-3-chome, Ome-shi, JapanFull name of fifth inventor: Hisashi TAKANOInventor's signature: Hisashi Takano Date: May 29, 1991Residence: Hachioji-shi, JapanCitizenship: JapanPost Office Address: 32, Koyasumachi-2-chome, Hachioji-shi, JapanFull name of sixth inventor: Eijin MORIWAKIInventor's signature: Eijin Moriwaki Date: May 29, 1991Residence: Hachioji-shi, JapanCitizenship: JapanPost Office Address: 48-18, Akatsukicho-1-chome, Hachioji-shi, JapanFull name of seventh inventor: Mikio SUZUKIInventor's signature: Mikio Suzuki Date: May 29, 1991Residence: Kokubunji-shi, JapanCitizenship: JapanPost Office Address: 14-6, Nishikoigakubo-4-chome, Kokubunji-shi, JapanFull name of eighth inventor: Masaaki FUTAMOTOInventor's signature: Masaaki Futamoto Date: May 29, 1991Residence: Tsukui-gun, Kanagawa-ken, JapanCitizenship: JapanPost Office Address: 2646-2, Kawashiri, Shiroyamamachi, Tsukui-gun, Kanagawa-ken, Japan.Full name of ninth inventor: Fumio KUGIYAInventor's signature: Fumio Kugiya Date: May 29, 1991Residence: Hachioji-shi, JapanCitizenship: JapanPost Office Address: 25-10, Nakano Kamicho-2-chome, Hachioji-shi, JapanFull name of tenth inventor: Yoshibumi MATSUDAInventor's signature: Yoshibumi Matsuda Date: May 29, 1991Residence: Hachioji-shi, JapanCitizenship: JapanPost Office Address: 32, Koyasumachi-2-chome, Hachioji-shi, JapanFull name of eleventh inventor: Kazuo SHIIKIInventor's signature: Kazuo Shiki Date: May 29, 1991Residence: Tsukui-gun, Kanagawa-ken, JapanCitizenship: JapanPost Office Address: 2644-6, Kawashiri, Shiroyamamachi, Tsukui-gun, Kanagawa-ken, Japan.

Full name of twelfth inventor: Yoshinori MIYAMURAInventor's signature: Yoshinori MiyamuraDate: May 29, 1991Residence: Nishitama-gun, Tokyo, JapanCitizenship: JapanPost Office Address: 2196-88, Hirai, Hinodemachi, Nishitama-gun, Tokyo, JapanFull name of thirtieth inventor: Kyo AKAGIInventor's signature: Kyo AkagiDate: May 29, 1991Residence: Fuchu-shi, JapanCitizenship: JapanPost Office Address: 18-6, Shinmachi-3-chome, Fuchu-shi, JapanFull name of fourteenth inventor: Takeshi NAKAOInventor's signature: Takeshi NakaoDate: May 29, 1991Residence: Sagamihara-shi, JapanCitizenship: JapanPost Office Address: 2327, Kamitsuruma, Sagamihara-shi, JapanFull name of fifteenth inventor: Hirotsugu FUKUOKAInventor's signature: Hirotsugu FukuokaDate: May 29, 1991Residence: Hitachiota-shi, JapanCitizenship: JapanPost Office Address: 847-94, Tenjinbayashicho, Hitachiota-shi, JapanFull name of sixteenth inventor: Takayuki MUNEMOTOInventor's signature: Takayuki MunemotoDate: May 29, 1991Residence: Niihari-gun, Ibaraki-ken, JapanCitizenship: JapanPost Office Address: 2625-3, Shimoinayoshi, Chiyodamura, Niihari-gun, Ibaraki-ken, JapanFull name of seventeenth inventor: Tokuho TAKAGAKIInventor's signature: Tokuho TakagakiDate: May 29, 1991Residence: Yokohama-shi, JapanCitizenship: JapanPost Office Address: 1021, Harajukucho, Totsuka-ku, Yokohama-shi, JapanFull name of eighteenth inventor: Toshio KOBAYASHIInventor's signature: Toshio KobayashiDate: May 29, 1991Residence: Nishitama-gun, Tokyo, JapanCitizenship: JapanPost Office Address: 2196-384, Hirai, Hinodemachi, Nishitama-gun, Tokyo, JapanFull name of nineteenth inventor: Hideo TANABEInventor's signature: Hideo TanabeDate: May 29, 1991Residence: Higashimurayama-shi, JapanCitizenship: JapanPost Office Address: 19-1, Misumicho-1-chome, Higashimurayama-shi, JapanFull name of twentieth inventor: Noboru SHIMIZUInventor's signature: Noboru ShimizuDate: May 29, 1991Residence: Tokorozawa-shiCitizenship: JapanPost Office Address: 1735-4, Yamaguchi, Tokorozawa-shi, Japan